Please type a plus sign (+) inside this box \rightarrow +

TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Application Number	09/895,463		
Filing Date	June 29, 2001		
First Named Inventor	A.K. Gunnar Aberg		
Group Art Unit	2122		
Examiner Name			
Attorney Docket Number	559P019		

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		ENCLOSURES (check	all that apply)
	d d d d d d d d d d d d d d d d d d d	Assignment Papers (for an Application) Drawing(s) Licensing-related Papers Petition Petition to Convert to a Provisional Application Power of Attorney, Revocation Change of Correspondence Address Terminal Disclaimer Request for Refund CD, Number of CD(s) Remarks	After Allowance Communication to Group Appeal Communication to Board of Appeals and Interferences Appeal Communication to Group (Appeal Natice, Binef, Reply Binef) Proprietary Information Status Letter X Other Enclosure(s) (please identify below): 18- References
	SIGNATU	JRE OF APPLICANT, ATTORNEY, OR	AGENT
Firm or Individual name Signature	Kevin S Nields	. Lemack & Lemack	
- 0	MES		
Date	Septemb	per 14, 2001	
		CERTIFICATE OF MAILING	

	CERTIFIC	CATE OF MAILING
I hereby certify that this corresponding in an envelope addressed to	ondence is being deposited with o: Commissioner for Patents, W	the United States Postal Service with sufficient postage as first class ashington, DC 20231 on this date: Sept. 14, 2001
Typed or printed name	Kevin K/Lemack	
Signature	1520	Date September 14, 2001

STATES PATENT AND TRADEMAK IN THE UNITE

Applicant

A.K. Gunnar Aberg

Serial No.

09/895,463

Filed

June 29, 2001

For

TOLTERODINE METABOLITES

Examiner

Not yet assigned

Art Unit

2122

Attorney

Docket No.

559P019

Assistant Commissioner of Patents and Trademarks Washington, D.C. 20231

Sir:

INFORMATION DISCLOSURE STATEMENT

The Examiner is respectfully requested to consider the enclosed documents which are listed on the attached form PTO 1449.

Copies of the documents listed on the attached form are filed herewith.

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner of Patents and Trademarks, Washington D.C. September 14, 2001 20231, on,

Signature: Date:

Kevin S. Lemack September 14, 2001

Respectfylly submitted,

Kévin S. Lemack Attorney for Applicants Registration No. 32,579 Nields & Lemack 176 E. Main Street Westboro, MA 01581 TEL: (508) 898-1818

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FORM RTO-1449

LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.	SERIAL NO.
559P019	09/895,463

A.K. Gunnar Aberg

FILING DATE GROUP
June 29, 2001 2122

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5,236,956	8/1993	Sjogren et al.	514	617	
	AB	5,382,600	1/1995	Jonsson et al.	514	603	
	AC	5,532,278	7/1996	Aberg et al.	514	617	
	AD	5,559,269	9/1996	Johansson et al.	564	443	
	AE	5,677,346	10/1997	Aberg et al.	51	617	
	AF	5,686,464	11/1997	Johansson et al.	514	315	
	AG	5,736,577	4/1998	Aberg et al.	514	617	
	AH	5,922,914	7/1999	Gage et al.	564	413	
	Al				İ		
	AJ						
	"						

FOREIGN PATENT DOCUMENTS

		DOCUMENT	UMENT				TRANSLATION	
•	1	NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO
	BA	0 325 571	7/1989	Europe				
	BB	0 667 852	8/1995	Europe				
			-					

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

	CA	(1) Nilvebrant et al.: Tolterodine - a new bladder-selective antimuscarinic agent. Europ. J. Pharmacol. 1997, 327: 196-207 There are over 20,000 publications on the drug tolterodine. This publication by Nilvebrant et al. is one of the more comprehensive reviews of the pharmacological activities of tolterodine, written by the people that invented tolterodine.
· · · · · · · · · · · · · · · · · · ·	СВ	(2) Nilvebrant et al.: Antimuscarinic potency and bladder selectivity of PNU-200577, a major metabolite of tolterodine. Pharmacol Toxicol, 1997, 81:169-172 Describes 5-hydroxymethyl-tolterodine as a major metabolite of tolterodine
	CC	(3) Brynne et al.: Pharmacokinetics and pharmacodynamics of tolterodine in man: a new drug for the treatment of urinary bladder overactivity. Int J Clin Pharmacol Ther 1997, 35: 287-295 Demonstrates that tolterodine undergoes extensive and variable hepatic first-pass metabolism. Both N-dealkylation and oxidation of of the 5-methyl group are mentioned (see page 293, Discussion)
	CD	(4) Andersson et al.: Biotransformation of tolterodine, a new muscarinic antagonist, in mice, rats, and dogs. Drug Metab Dispos. 1998, 26:528-535The in vivo metabolism of tolterodine in mice, rats and dogs is described. Both dealkylated and 5-HM-oxidized metabolites are described

CE	(5) Gillberg, P-G, Sundquist, S.: Pharmacological profile of DDO1 and desethyloxybutynin (DEOB). J. Urol 1997, 157: 81 p (Abstract) This publication concerns the antimuscarinic activity of the tolterodine metabolite 5-hydroxymethyl-tolterodine (here called DDO1) and an active metabolite of the competing drug oxybutynin (desethyl-oxybutynin, here called DEOB)
CF	(6) Pharmacia-Upjohn: Prescribing Information for Detrol (tolterodine tablets) http://www.detrol.com.pi/index.htm This is the official drug product information from the manufacturer. The metabolism of tolterodine is described on pages 1 and 2. On page 6 there is a discussion of the risk for QT prolongation. A prolongation of 10 - 20% in the dog is called a "slight prolongation" although it is well known that a prolongation of 25 - 30% is fatal.
CG	(7) Postlind et al.: Tolterodine, a new muscarinic receptor antagonist, is metabolized by cytochromes P450 2D6 and 3A in human liver microsomes. Drug Metab Dispos 1998, 26: 289-293) This publication describes how the metabolites of tolterodine (by specific liver enzymes). Both the formation of 5-hydroxymethyl-tolterodine and the secondary amine metabolite are described in detail.
СН	(8) Stahl et al.: Urodynamic and other effects 0f Tolterodine Neurourol Urodyn 1995, 14: 647-655 This publication deals with clinical pharmacological activities and is part of the core documentation for tolterodine,

EXAMINER

DATE CONSIDERED

EXAMINER: Initial reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with 'next communication to applicant.

SR=Cited in Search Report

^{*=}English Abstract